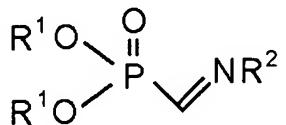


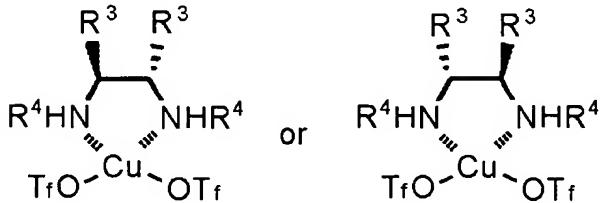
Amendments to the Claims

1 (currently amended). A production method for aminophosphonic acid derivatives comprising reacting an α -iminophosphonate ester represented by the formula below
 [Chemical Formula 1]



, wherein R¹ represents an alkyl group and R² represents a protective group for an amino group, and a nucleophilic agent in the presence of a chiral copper catalyst represented by the formula below

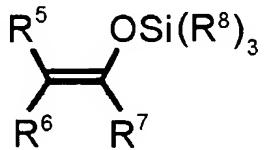
[Chemical Formula 2]



, wherein R³ and R⁴, may be identical or different, represent an aryl group or an aralkyl group.

2 (currently amended). The production method of claim 1, wherein the nucleophilic agent is a silyl enol ether represented by the formula below

[Chemical Formula 3]



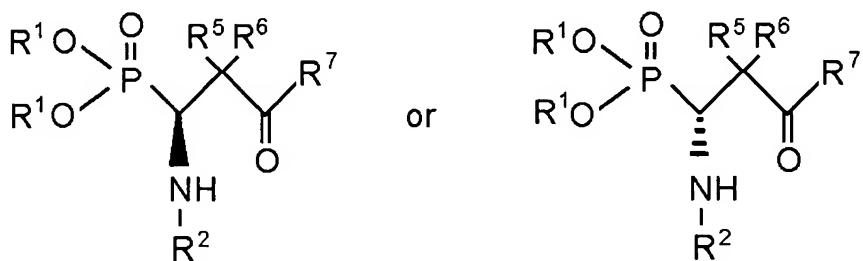
, wherein R⁵ and R⁶, may be identical or different, represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, R⁷ represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by -SR⁹, wherein R⁹

represents an alkyl group or an aryl group, and R⁸, may be identical or different, represents an alkyl group or a phenyl group.

3 (currently amended). The production method of claim 1-~~or 2~~, wherein a compound having an activated proton is added to the reaction medium as an additive.

4 (original). The production method of claim 3, wherein the additive is hexafluoro isopropyl alcohol (HFIP).

5 (currently amended). The production method of claim 1 any one of claims 1-4, wherein the aminophosphonic acid derivative represented by the formula below:
[Chemical Formula 4]

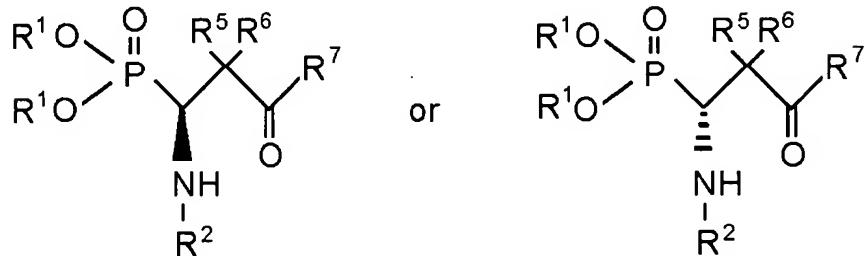


, wherein, R¹ represents an alkyl group, R² represents a protective group for an amino group, R³ and R⁴, which may be identical or different, each represent an aryl group or an aralkyl group, R⁵ and R⁶, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R⁷ represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by -SR⁹, wherein R⁹ represents an alkyl group or an aryl group -R¹ to R⁷ are as defined as above.

6 (new). The production method of claim 2, wherein a compound having an activated proton is added to the reaction medium as an additive.

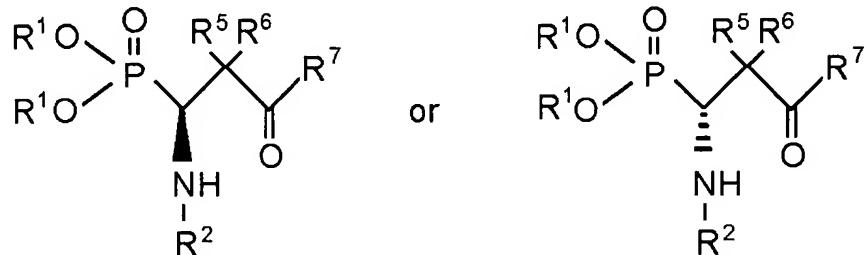
7 (new). The production method of claim 6, wherein the additive is hexafluoro isopropyl alcohol (HFIP).

8 (new). The production method of claim 2, wherein the aminophosphonic acid derivative represented by the formula



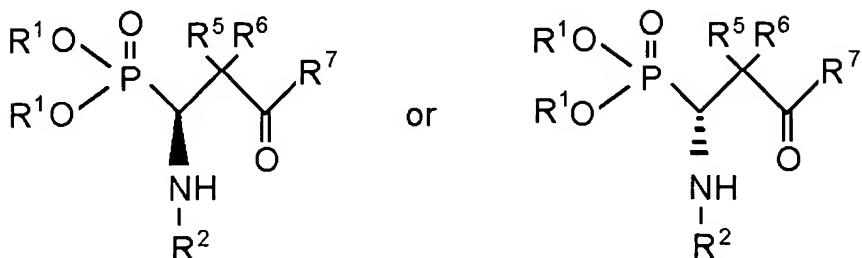
, wherein, R¹ represents an alkyl group, R² represents a protective group for an amino group, R³ and R⁴, which may be identical or different, each represent an aryl group or an aralkyl group, R⁵ and R⁶, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R⁷ represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by ·SR⁹, wherein R⁹ represents an alkyl group or an aryl group.

9 (new). The production method of claim 3, wherein the aminophosphonic acid derivative represented by the formula



, wherein, R¹ represents an alkyl group, R² represents a protective group for an amino group, R³ and R⁴, which may be identical or different, each represent an aryl group or an aralkyl group, R⁵ and R⁶, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R⁷ represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by ·SR⁹, wherein R⁹ represents an alkyl group or an aryl group.

10 (new). The production method of claim 4, wherein the aminophosphonic acid derivative represented by the formula



, wherein, R¹ represents an alkyl group, R² represents a protective group for an amino group, R³ and R⁴, which may be identical or different, each represent an aryl group or an aralkyl group, R⁵ and R⁶, which may be identical or different, each represent hydrogen atoms, alkyl groups, aryl groups or aralkyl groups, and R⁷ represents an alkyl group, aryl group, aralkyl group, alkoxy group or sulfide group represented by -SR⁹, wherein R⁹ represents an alkyl group or an aryl group.

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